

BULANOV, A. I.

p. 2

PHASE I BOOK EXPLOITATION

SOV/3815

SOV/7-M-7

Akademiya nauk SSSR. Laboratoriya aerometodov

Trudy, tom 7: Materialy VII Vsesoyuznogo mezhdovedomstvennogo soveshchaniya po aeros"yemke, 25 noyabrya - 1 dekabrya 1956 g. (Transactions of the Laboratory of Aerial Methods, Academy of Sciences USSR, Vol. 7: Materials of the 7th All-Union Interdepartmental Conference on Aerial Surveying) Moscow, 1959. 331 p. 1,400 copies printed.

Editorial Board: A.V. Glagolev, V.G. Zdanovich, N.G. Kell' (Resp. Ed.), D.M. Kudritskiy, K.S. Lyalikov, and G.G. Samoylovich; Ed. of Publishing House: D.M. Kudritskiy; Tech. Ed.: M.Ye. Zendel'.

PURPOSE: This collection of articles is intended for photogrammetrists. The articles will be of interest to all governmental and industrial agencies concerned with aerial photography.

COVERAGE: This is the first volume of a 2-volume work containing reports read at the All-Union Conference on Photogrammetry which took place in Leningrad from November 25 to December 1, 1956, under the auspices of the Laboratory of Aerial Photography Methods of the Academy of Sciences USSR. These reports

Card 1/15

Transactions of the Laboratory (Cont.)

80V/3815

describe the principles and applications of photo interpretation in the fields of soil science, forestry, geology, hydrology, industrial development, etc. Individual reports discuss the equipment used and techniques employed. References accompany each article.

TABLE OF CONTENTS:

Kell', N.G. Preface

3

Bulanov, A.I. [Glavnoye upravleniye geodezii i kartografii - Main Administration of Geodesy and Cartography].

Organization, Planning, and Execution of Aerial Survey Operations by the Main Administration of Geodesy and Cartography of the Ministry of Internal Affairs, USSR

5

Mikhaylov, V.Ya. [Tsentral'nyy nauchno-issledovatel'skiy institut geodezii, aerofotos''yemki i kartografii - Central Scientific-Research Institute of Geodesy, Photogrammetry, and Cartography].

Present State and Future Prospects of the Development of Scientific Programs in Aerial Photography

10

Card 2/15

BULANOV, A.I.

Organization, execution and future prospects of aerial
photogrammetric operations carried out by the Main Adminis-
tration of Geodesy and Cartography of the Ministry of Internal
Affairs of the U.S.S.R. Trudy Lab.aeromet. 7:5-9 '59.
(MIRA 13:1)

1. Glavnoye upravleniye geodezii i kartografii Ministerstva
vnutrennikh del SSSR.
(Aerial photogrammetry)

BULANOV, Aleksandr Ivanovich; SHCHEGLOV, A.P., red.; VASIL'YEVA, V.I.,
red.izd-va; ROMANOVA, V.V., tekhn.red.

[Booklet for workers of leveling brigades] Pamiatka rabochego
nivelirnoi brigady. Izd.3. Moskva, Izd-vo geodez.lit-ry, 1960.
37 p. (MIRA 13:11)
(Leveling)

SUDAKOV, S.G.; ALEKSANDROV, T.F.; BULANOV, A.I.; DURNEV, A.I.;
YELISEYEV, S.V.; ZAKATOV, P.S.; IZOTOV, A.A.; KARLOV, G.M.;
KUZ'MIN, B.S.; KUKUSHKIN, A.D.; KOLUPAYEV, A.P.; KUZLOVA, Ye.A.;
LARIN, B.A.; LARIN, D.A.; LARIN, B.A.; LITVINOV, B.A.; MAZAYEV,
A.V.; PELLINEN, L.P.; PETROV, A.I.; SOLOV'YEV, A.I.; TOMILIN, A.F.;
URALOV, S.S.; USPENSKIY, M.S.; FOMIN, M.P.; SHISHKIN, V.N.; SHCHEGLOV,
A.P.; SUDAKOV, S.G., otv. red.; KOMARKOVA, L.M., red. izd-vz; SUNGUROV,
V.S., tekhn. red.

[Instruction concerning the building-up of a state geodetic network
in the U.S.S.R.] Instruktsiya o postroenii gosudarstvennoi geodezi-
cheskoi seti Soiuza SSR; obiazatel'na dlia vseh vedomstv i uch-
rezhdenii, proizvodiaschikh gosudarstvennye geodezicheskie seti.
Moskva, Izd-vo geodez. lit-ry, 1961. 459 p. (MIRA 15:6)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye geodezii i karto-
grafii.

(Geodesy)

BULANOV, Aleksandr Ivanovich; DANILOV, Vladimir Vladimirovich; ZAKATOV,
Petr Sergeyevich; YERMOLOV, Boris Pavlovich[deceased];
PAVLOV, Vitaliy Fedorovich; TROITSKIY, Boris Vladimirovich;
SLOBODCHIKOVA, D.A., red.; VASIL'YEVA, V.I., red. izd-va;
ROMANOVA, V.V., tekhn. red.

[Geodesy] Geodeziia. [By] A.I. Bulanov i dr. Pod obshchei red.
D.A. Slobodchikova. Moskva, Izd-vo geodez. lit-ry. Pt.1. 1962
315 p. (MIRA 16:1)

(Geodesy)

BULANOV, Aleksandr Ivanovich; DANILOV, Vladimir Vladimirovich;
ZAKATOV, Petr Sergeyevich, prof.; YERMOLOV, Boris Pavlovich
[deceased]; PAVLOV, Vitaliy Fedorovich; TROITSKIY, Boris
Vladimirovich; SLOBODCHIKOV, D.A., red.; VASIL'YEVA, V.I.,
red.izd-va; ROMANOVA, V.V., tekhn.red.

[Geodesy] Geodeziia. Moskva, Izd-vo geodezicheskoi lit-ry.
Pt.1. 1962. 315 p. (MIRA 16:10)
(Geodesy)

SUDAKOV, S.G.; ALEKSANDROV, T.F.; BAGROV, M.A.; BULANOV, A.I.;
KAMENSKAYA, M.V.; KUZ'MIN, B.S.; LITVINOV, B.A.; SINYAGINA,
M.I.; TIMOFEYEV, A.A.; ENTIN, I.I. Primal uchastiye
SINYAGINA, V.I.; KOMAR'KOVA, L.M., red.izd-va; ROMANOVA,
V.V., tekhn. red.

[Instructions for 1st, 2d, 3d, and 4th-class leveling] In-
struktsiia po nivelirovaniu I, II, III, i IV klassov. 4 izd.
dop. i ispr. Moskva, Gosgeoltekhizdat, 1963. 110 p.

(MIRA 16:6)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye geodezii i
kartografii.

(Leveling)

BOKSHEYN, S.Z.; KISHKIN, S.T.; NIKISHOV, A.S.; POLYAK, E.V.; SOLOV'YEVA, G.G.;
Prinimali uchastiye: ARZHAKOV, V.M.; BULANOV, A.V.; VERTYUKOVA, L.G.;
KORABLEVA; MIRSKIY, L.M.; PODVOYSKAYA, O.N.; SAZONOVA, T.N.;
SOLOVINA, O.P.; TITARENKO, I.I.; RINK, L.P.; KOZLOVA, M.N.;
YERMOLOVA, M.I.; MOROZ, L.M.

Aging of plastically deformed alloys. Metalloved. i term. obr.
met. no.5:40-44 My '63. (MIRA 16:5)
(Heat-resistant alloys--Hardening) (Deformations (Mechanics))

I 22842-66 EWP(e)/EWT(m)/T/EWP(t)/EWP(k) JD/HW/DJ/WH
ACC NR: AP6011221 SOURCE CODE: UR/0413/66/000/006/0057/0057

INVENTOR: Bulanov, A. V.; Korneyev, N. I.; Skugarev, I. G.; Kalugin, V. F.

ORG: none

TITLE: Method of producing a lubricant for hot working of metals.
Class 23, No. 179869

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki,
no. 6, 1966, 57

TOPIC TAGS: lubricant, metal hot working, metal lubrication, metal
lubricant

ABSTRACT: This Author Certificate introduces a method of producing a lubricant for hot working of metals based on aluminoborosilicate glass. To improve the lubricant quality and prevent crack formation on the surface of metal parts, the aluminoborosilicate glass is impregnated with sulfite waste liquor, which is followed by drying and application of a metal powder such as copper or iron. [ND]

SUB CODE: // 13/ SUBM DATE: 30Nov64/ ATD PRESS: 4229

Card

1/1 BK

UDC: 621.892:621.7.016.2

BULANOV, B.A.; NEUMOIN, A.F.

Introducing a machine for lapping back tooth edges of flat
broaches. Biul. tekhn.-ekon. inform. Gos. nauch.-issl. inst.
nauch. i tekhn. inform. 18no.10:28-29 0 '65. (MIRA 18:12)

BULANOV, F.

Bulanov, F. "Semi-finished food products frozen in blocks", *Izys. industriya*, 1949, No. 1, p. 33-34.

SO: U-3042, 11 March 53, (*Letopis 'nykh Statey*, No. 10, 1949).

BULANOV, F.

Refrigerator Cars

Transporting meat in Kleimov type freight cars. Mas. ind. SSSR 25 no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, August 1952, Uncl.
52

1. BULANOV, Eng. F.
2. USSR (600)
4. Sausages
7. Controlling losses in sausage products during storage and transportation. Mias.
ind. SSSR 23 no. 6 1952

9. Monthly List of Russian Accessions. Library of Congress, March 1953

BULANOV, F.

Letter to the Editor: CONCERNING ENGINEER KLEMIENOV'S REFRIGERATOR CAR. (By P. Kuklin, Assistant Director, Car Division, Railroad Transportation Research Institute; B. Baksansky, Senior Engineer, Research Bureau, Transport Machine-Building Ministry's Chief Railroad Car Administration; and F. Bulanov, Senior Scientific Associate, Research Institute of USSR Ministry of the Meat and Dairy Industry.

SO: Pravda, Jan 7, page 2.

Current Digest of the Soviet Press, Vol 4, No 1, 1952, page 25.

BULANOV, F., inzhener; KLEYMENOV, I., inzhener.

Experimental transportation of fresh fruit in refrigerated freight
cars. Khol.tekh. 30 no.4:22-27 O-D '53. (MLRA 7:3)
(Refrigerator cars)

BULANOV, F., inzhener.

Packing frozen meat. Mias.ind. SSSR 24 no.6:12-14 '53. (MLBA 6:12)
(Meat, Frozen)

BULANOV, F.D., starshiy nauchnyy sotrudnik.

Testing railroad cars with new refrigeration systems used for transportation of frozen meat, sausages and fruit. Trudy LTIKHP 10:34-44 '56.
(MLRA 10:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut myasnoy promyshlennosti.

(Refrigerator cars)

(Food, Frozen--Transportation)

1. BULANOV, G.K.
2. USSR (600)
4. Afforestation
7. Timely preparation of soil, and seeding and planting of forests, Les.khoz. 6 no. 3, 1953.
9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953. Unclassified.

BULANOV, G.M., gornyy inzh.; SALISHCHEV, D.S., gornyy inzh.

Large-scale blasting at the Tashtagol Mine. Gor. zhur. no.4:16-
19 Ap '60. (MIRA 14:6)

1. Rudnik Tashtagol, Kemerovskoy obl.
(Blasting)
(Kemerovo Province—Mining engineering)

BULANOV, G.M.

Large-scale blasting at the Tashtagol Mine. Ger. zhur. no. 6:30-32
Je '64. (MIRA 17:11)

1. Kuznetskiy metallurgicheskiy kombinat; glavnyy inzh. shakhty
rudnika Tashtagol.

MASHUKOV, V.I.; BULANOV, G.M.; NOVIKOV, A.K.; VOLCHENKO, N.G.

Localizing shock air waves during large-scale blasting.
Met. i gornorud. prom. no.6:51-52 N-D '65.

(MIRA 18:12)

BULANOV, Ivan Filippovich; IVANOV, B.N., inzh., red.; FREGER, D.P., red. izd-
va; BELOGUROVA, I.A., tekhn. red.

[Semiautomatic winding machines] Namotóchnye poluavtomaty. Leningrad,
1961. 20 p. (Leningradskii Dom nauchno-tekhnicheskoi propagandy.
Obmen peredovym opytom. Seriya: Pribory i elementy avtomatiki, no.7)
(MIRA 14:7)

(Winding machines)

PALIBIN, P.A.; SMIRNOV-AVERIN, A.P.; SEVAST'YANOV, Yu.G.; BULANOV, L.A.;
SHASHARIN, G.A.

Organic heat-transfer agents in reactor engineering. Inzh.-fiz.
zhur. 4 no. 5:127-138 My '61. (MIRA 14:5)
(Nuclear reactors--Materials)

S/089/63/014/003/015/020
B102/3186

AUTHORS: Sevast'yanov, Yu. G., Bulanov, L. A., Kaplan, Ye. P.,
Nefedov, O. M., Smirnov-Averin, A. P.

TITLE: An activation method for quantitative determination of
organically bound sulfur impurities in polyphenyls

PERIODICAL: Atomnaya energiya, v. 14, no. 3, 1963, 324 - 326

TEXT: A great disadvantage of using polyphenyls as coolants and moderators in power reactors is their content of sulfur impurities (due to the production conditions). S^{32} changes over into P^{32} in fast-neutron induced (n,p) reactions, while P^{32} emits betas of 1.7 Mev and renders the coolant regeneration difficult; moreover, sulfur reacts with the tube material to form metal sulfides which cause corrosion. In order to determine the S^{32} content an activation method based on the $S^{32}(n,p)P^{32}$ reaction was developed. The P^{32} activity is determined on comparison with a reference standard (pure Na_2SO_4), the irradiation (total 10^{18} n/cm²)

Card 1/2

An activation method for ...

S/089/63/014/003/015/020
B102/B186

taking 26 - 28 hrs; between irradiation and analysis a period of 7 - 10 days was used for complete decay of Na^{24} . The induced activity was measured with an end-window counter with a 78 mg/cm^2 aluminum filter. A content of $\sim 0.1\%$ S in a batch of 10 - 20 mg was found to correspond to ~ 3000 pulses/min. Consequently, when the irradiation time can be raised 3 to 5 times, quantities of 0.001 - 0.0005 % S can even be determined. The sensitivity can be further increased by concentrating the sample. There is 1 table.

SUBMITTED: March 10, 1962

Card 2/2

9876-63 EPR/EWP(j)/EPF(c)/EPF(n)-2/EPF(n)/BDS/ES(s)-2 AFFTC/ASD/ESD-3/AFWL/
SSD Pb-4/Pc-4/Pr-4/Pu-4/Pt-4 RM/WW/MAT

ACCESSION NR: AP3002260

S/0089/63/014/006/0555/0558

AUTHOR: Sevast'yanov, Yu. G.; Bulanov, L. A.; Smirnov-Averin, A. P.; Kaplan, Ye. P.; Nefedov, O. M.; Chel'tsova, M. A.; Petrov, A. D.

TITLE: Thermal and radiation stability of certain aromatic compounds

SOURCE: Atomnaya energiya, v. 14, no. 6, 1963, 555-558

TOPIC TAGS: pyrolysis, radiolysis, Gamma radiation, neutron radiation, thermal stability, radiation stability, polycyclic aromatic hydrocarbons, naphthalene, anthracene, biphenyl, terphenyl, alkylated biphenyls, alkylated terphenyls, diphenyl methane, phenoxybiphenyl

ABSTRACT: The pyrolysis and Gamma radiation induced and neutron-radiation induced radiolysis of a number of polycyclic aromatic hydrocarbons, (isopropyl- and phenyl-substituted biphenyls, naphthalenes, and terphenyls; polyphenylenes with methylene bridges between the rings; and phenoxybiphenyl isomers) have been studied. The samples were degassed beforehand to prevent oxidation. A study of pyrolysis at 400°C indicated that the stability of biphenyls and terphenyls was two to three orders above that of Alpha-phenylnaphthalene, the alkyl-

Card 1/3

I. 9876-63

ACCESSION NR: AP3002260

2

substituted hydrocarbons, and the aromatic ethers. An increase in the number of alkyl substituents in the hydrocarbons decreased their thermal stability. Of the alkyl-substituted hydrocarbons, isopropyl-m-terphenyl was found to be the most stable to decomposition to gaseous products and isopropylbiphenyl the most stable to polymerization. Thermal stability decreased from biphenyl to phenoxybiphenyls. The pyrolysis kinetics was studied by additional pyrolysis of the most stable compound, m-terphenyl, at 194, 475, and 459C. From the results obtained, rate constants of pyrolysis were calculated, and activation energy was found to be about 70 kcal/mol. Pyrolysis at 410C of polyphenylenes with methylene bridges between the rings revealed that their thermal stability was three orders below that of m-terphenyl. In experiments with irradiation of the hydrocarbons in a neutron field (10 sup 13 n/cu cm sec) at 60 and 350C, m-terphenyl was found to be the most stable of all the compounds. An increase in temperature from 60 to 350C increased radiation-induced decomposition by a factor of 3.8. From Gamma-irradiation experiments (dose, 10 sup 21 ev/g) it was found that the energy absorbed was not sufficient to produce radiolytic decomposition of biphenyl, terphenyls, or phenylnaphthalenes. It was concluded that the superior thermal and radiation stability shown by biphenyl and by the terphenyl isomers makes them suitable as heat transfer agents for nuclear power reactors. Orig. art. has: 5 tables.

Card 2/3

SEVAST'YANOV, Yu.G.; BULANOV, L.A.; SMIRNOV-AVERIN, A.P.; KAPLAN, Ye.P.;
NEFEDOV, O.M.; CHEL'TSOVA, M.A.; PETROV, A.D.

Thermal and radiation stability of certain aromatic compounds.

Atom. energ. 14, no.6:555-558 Je '63. (MIRA 16:7)

(Pyrolysis) (Aromatic compounds--Thermal properties) (Polymerization)

GOVZMAN, S.G., BULANOV, L.P.

X-ray diagnosis of tumors of the superior portion of the stomach and abdominal esophagus by means of artificial pneumoperitoneum with a double contrast technic [with summary in English]. Khirurgiia 34 no.5:26-33 My '58 (MIRA 11:7)

1. Iz 2-y kafedry rentgenologii (zav. - prof. Yu.N. Sokolov) Tsentral'nogo instituta usovershenstvovaniya vrachey, 1-y khirurgicheskoy kliniki (zav. - dots. N.M. Makhov) Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo instituta imeni M.F. Vladimirovskogo i Moskovskiy oblastnoy rentgenovskoy stantsii (zav. G.Ya. Shvabauer).

(STOMACH NEOPLASMS, diagnosis

x-ray diag. with artif. pneumoperitoneum & double contrast technic (Rus))

(ESOPHAGUS, neoplasms same)

(PNEUMOPERITONEUM, ARTIFICIAL,

in x-ray diag. of stomach & esophagus neoplasms with double contract technic (Rus))

BULANOV, N.

Circular saw for sawing breastbones. Mias. ind. SSSR 32
no. 4:41 '61. (MIRA 14:9)

1. TSentral'noye konstruktorskoye byuro Myasomolmasha.
(Circular saws)

BULANOV, N.; KRAVCHENKO, N.

Small-size meat cutter. Mias.ind.SSSR 32 no.6:10 '61.

(MIRA 15:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut myasnoy
promyshlennosti.

(Meat grinders)

ZAYTSEV, N.; BULANOV, N.; KOTLYAREVSKIY, N.

Mechanized production line for the preparation of sausage filling.
Mias.ind.SSSR 33 no.2:14-15 '62. (MIRA 15:5)
(Sausages) (Assembly-line methods)

ORIGIN : USSR
 CATEGORY : Farm Animals.
 (see Honeybees.
 ES. JOUR. : ZEMLEDEL. No. 3, 1959, No. 12112
 AUTHOR : Sytanov, N. A.
 JYR. : Ul'yanovsk Technical School of Agriculture.
 ITLL : The Sowing of Early Honey Plants.

RIG. EUR. : -

..
 ABSTRACT : At the Okhotnichye training sovkhos of the Technical School of Agriculture the early-spring crops of mustard (Sinapis) and honey bean (Phaseolus) whose terms of blossoming fell on the beginning of July, produced a three times higher honey yield as compared to the neighbouring farm where such crops were absent.

* Ul'yanovskiy

LRB: 1/1

BULANOV, N.A.; KHOMENYUK, Yu.V.

Noise of autocompensators and ways to suppress it. Razved. i prom.
geofiz. no.50:76-83 '63. (MIRA 18:3)

110300-67 FAN(1) GW

ACC NR: AP6029899

(A, V)

SOURCE CODE: UR/0413/66/000/015/0062/0062

INVENTORS: Alekseyev, A. M.; Bezruk, I. A.; Bulanov, N. A.; Shchukin, S. N.; Klyuchkin, V. N.; Kulikov, A. V.; Melikadze, S. Ye.; Chinareva, O. M.; Yemol'yanov, A. M.; Mangirova, G. S.; Rozin, G. I. M.; Boltalin, A. P.; Zlatkovich, L. A.; Iova, G. M.; Sokolova, E. D.

ORG: none

TITLE: Geoelectric prospecting device. Class 21, No. 184361 [announced by All-Union Scientific Research Institute of Geophysical Prospecting Methods (Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki)]

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 62

TOPIC TAGS: prospecting, geologic instrument

ABSTRACT: This Author Certificate presents a geoelectric prospecting device containing a dc generator, a master oscillator, a thyatron bridge commutator, a reference phase synchropulse shaper unit, a radio station, and a measuring laboratory. The laboratory contains an electromagnetic field receiver, a calibration unit, a selective amplifier, a radio station, a synchropulse shaper unit, an electronic oscillograph, a recorder, a time setting unit, and a detector voltmeter. For generalized utilization of the device in the VP, MPP, and INFAZ methods, to increase the accuracy of measuring the phase angles in the infrasonic frequency range, and to increase the noise

Card 1/2

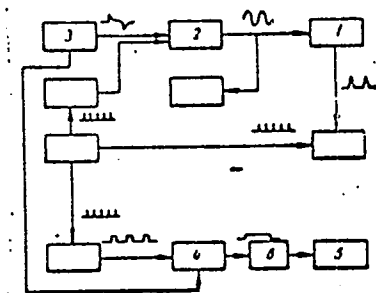
UDC: 550.837

L 10306-57

ACC NR: AP6029899

protection when measuring pulsed signals, a phase marker in the form of a diode regenerative comparator is placed in the measuring laboratory. The comparator is connected to the output of the selective amplifier. An input signal divider connected to the input of the selective amplifier is used in the calibration unit. A dc amplifier operating in the electrometric mode is connected between the register and recorder (see Fig. 1).

Fig. 1. 1 - phase marker; 2 - selective amplifier; 3 - calibration unit; 4 - register; 5 - recorder; 6 - dc amplifier



Orig. art. has: 1 diagram.

SUB CODE: 09108/ SUBM DATE: 30Jun64

Card 2/2

BULANOV, N.G., kandidat ekonomicheskikh nauk.

Economic problems of fuel supply for electric power stations.
Trudy LIEI no.7:59-69 '54 (MLRA 9:9)
(Electric power plants--Equipment and supplies) (Fuel)

BULANOV, N.G.

BRIL', R.Ya., dotsent, kandidat ekonomicheskikh nauk; BULANOV, N.G., kandidat ekonomicheskikh nauk.

Effect of comparative economy of transmission of electric power, heat and fuel transport on the location of heat and power plants (TETS). Trudy LIEI no.12:120-127 1956. (MLRA 10:6)
(Heating from central stations) (Electric power plants)

BULANOV, N.G.; KUPRIYANOVA, L.V.; TSUKERMAN, R.V.; BUDNYATSKIY,
D.M.; GEL'TMAN, A.E.; KOSTOVETSKIY, D.L.; PISKAREV, A.A.;
TARANIN, A.I.; KORNEYEV, M.I.; MOISEYEV, G.I.; KENDYS'
P.N.; KIRPICHEV, Ye.F.; RUBIN, M.M.; SOKOLOV, N.V.;
SHCHERBAKOV, V.A.; KOVALEV, N.N.; BELOV, A.A.; SEREBRYAKOV,
G.M.; SATANOVSKIY, A.Ye., red.; RODDATIS, K.F., red ;
KORKHOVA, V.I., red.; CHEREPENNIKOV, B.A., red.; KOGAN,
F.L., tekhn. red.

[Manufacture of power machinery abroad] Energeticheskoe ma-
shinostroenie za rubezhom. Moskva, 1961. 583 p.

(MIRA 16:8)

1. Moscow. Tsentral'nyy institut nauchno-tekhnicheskoy in-
formatsii mashinostroyeniya.

(Electric power plants--Equipment and supplies)

BULANOV, N.G.

In the fight against snowdrifts. Put' 1 put.khoz. no.1:9
Ja '59. (MIRA 12:2)

1. Nachal'nik distantzii puti, stantsiya Altayskaya Tomskoy
dorogi.
(Railroads--Snow protection and removal)

BULANOV, N.G.; OBOROTISTOV, A.L.; KOTYUKOV, I.A.

Excellent maintenance of switches. Put' i put. khoz. 8 no.1:
9-12 '64. (MIRA 17:2)

1. Altayskaya distantiya puti Zapadno-Sibirskoy dorogi.

TSUKERMAN, R.V., kand. tekhn. nauk; BULANOV, M.G., kand. ekon. nauk;
SHIFRIN, I.B., inzh.; BRIL', A.R., inzh.; NAZARENKO, S.S.,
inzh.; BIZINA, N.S., inzh.

Auxiliary equipment of steam turbine electric power plants.
Energomashinostroenie 11 no.9:40-42 S '65. (MIRA 18:10)

VOROB'YEV, Petr Fedotovitch; BULANOV, N.L., red.; LOBANOV, Ye.M., red.
izd-va; BOBROVA, V.A., tekhn.red.

[Organization of freight and passenger transportation on small
rivers] Opyt organizatsii gruzovykh i passazhirskikh perevozk
na mal'kikh rekakh. Moskva, Izd-vo "Rechnoi transport," 1959.
32 p. (MIRA 13:6)
(Inland water transportation)

BULANOV, N. N.

Canst. Techn. Sci.

"Concerning the Increase of the Effectiveness of Drilling Works."
Sub 10 Apr 47, Moscow Inst of Nonferrous Metals and Gold imeni M. I. Kalinin

Dissertations presented for degrees in science and engineering in Moscow
in 1947

SO: Sum No. 457, 18 Apr 55

828. PROBLEMS IN THEORY OF PNEUMATIC DRILLING. Bulanov, N. N.
(Gornyi Zhurnal (Min. J.), 1949, (9), 13-15).

The author works out a formula for calculating drilling speeds
from the dimensions of equipment and air pressure. (L).

GODNEV, T.N., otv. red.; VECHER, A.S., red.; TEREENT'YEV, V.M., red.;
GONCHARIK, N.M., red.; MASHTAKOV, S.M., red.; BULANOV, P.A.,
red.; ZAYTSEVA, T., red. izd-va; SIDERKO, N., tekhn. red.

[Physiology and biochemistry of plants] Fiziologiya i bio-
khimiya rastenii. Minsk, Izd-vo Akad. nauk BSSR, 1962. 127 p.
(MIRA 15:9)

1. Akademiya navuk BSSR, Minsk. Instytut biialogii.
(Plant physiology)

BULANOV, P. A.

Bulanov, P. A. - "Questions of the variability of microbes in the light of the Michurin doctrine," Trudy Alma-At. vet.-zootekhn. in-ta, Vol. V, 1948, p. 42-43

So: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 13, 1949)

BULANOV, P. A.

CA

17

Bactericidal and therapeutic properties of preparations from *Inula helenium*. P. A. Bulanov. *Izvest. Akad. Nauk Kazakh. S.S.R., Ser. Mikrobiol.* No. 1, (Whole No. 62) 40-6 (1949). — An alc. ext. of the plant roots has bactericidal activity against organisms that cause brucellosis, anthrax, and tuberculosis. In diln. of 1:100-1:200. Activity against staphylococci and hemolytic streptococci is weakly displayed also. No activity against dysentery or typhoid organisms was detected, and lactic acid bacteria are not affected. Beneficial effect on cases of pulmonary tuberculosis are cited, but no significant results were found in actual cases of anthrax or brucellosis. G. M. K.

BULANOV, P. A.

Future tasks in the field of microbiology in Kazakhstan. Trudy Inst.
mikrobiol. i virus. AN Kazakh. SSR 1:5-9 '56. (MLRA 10:6)
(KAZAKHSTAN--MICROBIOLOGY)

BUIANOV, P.A.

Cultivation in an acellular nutrient medium of virus-like formations from malignant tumors and their immunogenic properties. Trudy Inst. klin. i eksp. khir. AN Kazakh. SSR 4:165-169 '58. (MIRA 12:4)
(VIRUSES) (CANCER)

BULANOV, P.A.; ISAKOV, Yu.V

Production of experimental anticancer vaccine. Vest. AN Kazakh. SSR
16 no.11:34-38 N '60. (MIRA 13:12)

(CANCER)

BULANOV, P.A., prof.

Antibiotics in the prevention of diseases and the treatment of
animals. Veterinariia 37 no.3:42-46 Mr '60. (MIRA 16:6)

1. Chlen-korrespondent AN Kazakhskoy SSR.
(Veterinary medicine) (Antibiotics)

BULANOV, P.A.; ISAKOV, Yu.V.

Adsorbed vaccine against Brown-Pearce carcinoma. Trudy Inst.
klin. i eksp. khir. AN Kazakh. SSR 8:128-131 '62. (MIRA 17:7)

BULANOV, P.A., red.; VECHER, A.S., red.; GODNEV, T.N., red.; GONCHARIK, N.M., red.; LYAKHNOVICH, Ya.P., red.; MASHTAKOV, S.M., red.; MIRONENKO, A.V., red.; TERENCEV, V.M., red.

[Physiological characteristics of cultivated plants] Fiziologicheskie osobennosti kul'tiviruemykh rastenii. Minsk, Izd-vo "Nauka i tekhnika," 1964. 130 p. (MIRA 17:6)

1. Akademiya navuk BSSR, Minsk. Institut eksperimental'noy botaniki i mikrobiologii.

L 8753-65 EWT(1)/EWA(b) Pa-l/Pb-l AMD JK

ACCESSION NR: AP4047009

S/0250/64/008/009/0607/0608

AUTHOR: Bulanov, P. A.

TITLE: Biosynthesis of staphylococcal phage on cell-free bacterial media

SOURCE: AN BSSR. Doklady*, v. 8, no. 9, 1964, 607-608

TOPIC TAGS: bacteriophage, phage production, staphylococcal phage, cell free medium, bacterial lysate, lysozyme, adenosine triphosphate

ABSTRACT: As a follow-up to the successful synthesis of polio and tobacco mosaic viruses in vitro by B. S. Diskina et al. (1961), and by S. G. Wildman and G. W. Cochran et al. (1962), respectively, as well as his own work (1958) on the cultivation of virus-like particles from malignant tumors on cell-free medium, the author developed a technique for the production of staphylococcal bacteriophage on cell-free bacterial lysates. A 24-hour culture of Staphylococcus aureus was lysed with lysozyme during the logarithmic growth phase, filtered, supplemented with adenosine triphosphate (0.3 ml of 1% ATP solution/5 ml), and inoculated with staphylococcal phage obtained from the Tbilisskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok (Tiflis Scientific Research Institute for Vaccines and Sera). This phage could be passed through this cell-free medium 20 times

Cord 1/2

L 8753-65

ACCESSION NR: AP4047009

without loss of lytic activity, although activity was lost after 4 passages through meat peptone broth.

ASSOCIATION: Kafedra mikrobiologii, Belorusskiy gosudarstvennyy universitet imeni V. I. Lenina (Department of Microbiology, Belorussian State University)

SUBMITTED: 20 Jun 64

ENCL: 00

SUB CODE: 18

NO REF SOV: 002

OTHER: 003

Card 2/2

BULANOV, P.A.; POLKHOVSKIY, V.A.

Reproduction of the bacteriophage of *Bacillus cereus* in
a noncellular bacterial medium. Izv. AN Kazakh. SSR. Ser.
biol. nauk 3 no.6:40-42 N-D '65. (MIRA 18:12)

BULANOV, P.A. [Bulanau, P.A.]; LOBANOK, A.G. [Labanok, A.H.]

Microbial polysaccharides and their biological activity.

Vestsi AN BSSR. Ser. biol. nav. no.2:71-77 '65.

(MIRA 18:12)

BULANOV, P.A.; POLKHOVSKIY, V.A.

Reproduction of *Bacillus subtilis* phages in a noncellular
bacterial medium. Dokl. AN BSSR 9 no.2:125-126 F '65.

(MIRA 18:5)

1. Belorusskiy gosudarstvennyy universitet imeni Lenina,
kafedra mikrobiologii.

I 62499-65 EWT(m) RM

ACCESSION NR: AP5019326

UR/0250/65/009/007/0477/0479

AUTHOR: Lobanok, A. G.; Bulanov, P. A.

TITLE: Protective effect on irradiated mice of a water-soluble polysaccharide from a yeast-like microorganism Pullularia

SOURCE: AN BSSR. Doklady, v. 9, no. 7, 1965, 477-479

TOPIC TAGS: radiation protection, yeast, polysaccharide, X radiation

ABSTRACT: Intraperitoneal injection of inbred mice of the CSH/Sn strain with polysaccharide obtained from the microorganism *Pullularia* 3-24 hours before irradiation increased the survival rate and markedly lengthened the life of the animals as compared with the control. The most effective dose was 25 mg/kg administered 24 hours before irradiation. The same dose administered 3 hours before radiation was less effective, while a 5 mg/kg had no effect at all. A 200 mg/kg dose reduced the survival rate and time below that of the control. A 50 mg/kg dose injected 24 hours before irradiation increased the survival time but not the survival rate of the animals. Thus, there was a distinct relationship between the protective effect of polysaccharide and the time of administration before injection. The administration

Card 1/2

L 62499-65

ACCESSION NR: AP5019326

of polysaccharides before irradiation is known to increase the resistance of exposed animals to exogenous and endogenous infections. Stimulation of antibacterial immunity seems to be one of the mechanisms involved. The main factor in the survival of irradiated animals receiving polysaccharides is early restoration of hemopoiesis. Orig. art. has: 1 table.

ASSOCIATION: Institut eksperimental'noy botaniki i mikrobiologii AN BSSR (Institute of Experimental Botany and Microbiology, AN BSSR)

SUBMITTED: 16Apr65

ENCL: 00

SUB CODE: LS

NC REF SOV: 005

OTHER: 008

7.48
Card 2/2

MALAMA, A.A.; BULANOV, P.A.

Effect of melanin on Ehrlich's tumor. Dokl. AN BSSR 9 no.9:
627-629 S '65. (MIRA 18:11)

1. Belorusskiy gosudarstvennyy universitet imeni Lenina.
Submitted April 22, 1965.

BULANOV, P.A.; MALAMA, A.A.

Effect of polysaccharide from "black yeasts" on the growth
of Ehrlich's carcinoma. Dokl. AN BSSR 9 no. 4:270-272 Apr '65
(MIRA 19:1)

1. Laboratoriya mikrobiologii Institut eksperimental'noy botaniki
i mikrobiologii AN BSSR. Submitted December 9, 1964.

L 30234-66 EWT(1)/T JK

ACC NR: AP6020153

SOURCE CODE: UR/0250/65/009/002/0125/0126

AUTHOR: Bulanov, P. A.; Polkhovskiy, V. A.

26
B.

ORG: Department of Microbiology, Belorussian State University im. V. I. Lenin
(Kafedra mikrobiologii, Belorusskiy gosudarstvennyy universitet)

TITLE: Reproduction of the phages of Bacillus subtilis in a cell-less bacterial medium

SOURCE: AN BSSR. Doklady, v. 9, no. 2, 1965, 125-126

TOPIC TAGS: bacteria, virology, bacteriophage

ABSTRACT: It had long been believed that bacteriophages, like viruses, reproduce only in the living cells of the host organism. This has, however, recently been refuted by discoveries of Soviet and American scientists who synthesized the poliomyelitis and tobacco mosaic viruses in dead-cell and tobacco-leaf juice media. In June 1964 P. A. Bulanov (DAN BSSR, Vol. 8, No. 9, 1964) synthesized the staphylococcal bacteriophage in a medium containing no living cells. Accordingly, the authors pursued further this line of research in bacterial viruses (phages) which are a unique model for investigating the nature of viruses. To this end, they worked to develop a cell-less bacterial medium in which bacteriophages of Bac. subtilis could be cultured. This nutrient medium was prepared from lysozyme-sensitive yet nonlysogenic strain of Bac. subtilis No. 48 taken from soil in Minskaya Oblast. The concentration of the suspension was 1.5

Card 1/2

L 30234-66

ACC NR: AP6020153

0
billion microbial cells per cc. The culture was grown on meat-peptone agar and crystalline lysozyme (0.005 g per 100 cc of suspension) was added. Complete lysis of the cells followed in 10-15 min, whereupon the solution was further processed and 0.2 cc of phages of *Bac. subtilis* was added to the medium. Phage reproduction was determined according to the lytic activity of the phages. The experiments established the fundamental possibility of growing bacteriophage cultures in cell-less systems. [JPRS]

SUB CODE: 05 / SUBM DATE: 28Oct64 / ORIG REF: 002 / OTH REF: 005

Card 2/2 CC

L 59524-65 EWT(1)/EEC-4/EEC(t)/I/FCS(k) Pac-4/Pi-4/Pj-4/Pl-4 WR

ACCESSION NR: AP5018095

UR/0111/65/000/007/0004/0005
621.317.329:621.382.3

AUTHOR: Levin, M. I. (Engineer); Bulanov, S. F. (Engineer)

TITLE: Portable transistorized comparator

SOURCE: Vestnik svyazi, no. 7, 1965, 4-5

TOPIC TAGS: comparator, portable comparator, transistorized comparator

ABSTRACT: The development of a new comparator intended for measuring directional patterns of broadcasting antennas is reported. The instrument can measure a radio-field intensity within 3 mv/m — 3 v/m at 150—1600 kc with an error of 7% or less. The gain of the comparator receiver is calibrated at each operating frequency by means of a calibrating oscillator which also is a part of the comparator. The receiver gain is calibrated by a voltage applied to the ferrite-loop antenna. The superheterodyne receiver includes nine P402 transistors and seven P15 transistors; the ferrite-loop-antenna signal is applied directly to a frequency mixer. The comparator weight is 6 kg. A principal circuit diagram, some design details, and calibration procedure are given. Orig. art. has: 2 figures and 1 formula. [03]

Card 1/2

L 59524-65

ACCESSION NR: AP5018095

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

CODE: EC

NO REF SOV: 000

OTHER: 00

ATD PRESS: 4054

llc
Card 2/2

BULANOV, S. M.

"Activity of Thyroxine, Prepared by the Ukrainian Institute of Endocrinology,"
Farmakol. i Toksikol., 5, No.4, 1942.

Chair Sanitary-Chemical Defense, 2nd ~~KHKhKh~~ Med. Inst. Leningrad

BULANOV, S.V., veterinarnyy vrach

Intra vitam diagnosis of Dictyocaulus infestations. Veterinariia
37 no.10:77 0 '60. (MIRA 15:4)

1. Vetluzhskaya vetbaklaboratoriya, Gor'kovskoy oblasti.
(Nematoda)

BULANOV, V.

"Technology of felt production." F.I.Kuz'michev, M.I.Levin. Reviewed by V.Bulanov. Leg.prom. 14 no.9:53-54 S '54. (MLRA 7:9)
(Felt) (Kuz'michev, F.I.) (Levin, M.I.)

BULANOV, V., inzh.-polkovnik

Tunnel under Mont Blanc. Voenn. vest. 40 no. 2:120 F '61.

(Mont Blanc--Tunnels)

(MIRA 14:2)

BULANOV, Vladimir Antonovich, zhurnal'ist; GELLERSHTEYN, V.I., red.;
FEDOROVA, V.V., tekhn.red.

[Sun over the tundra; 1,000 kilometers on dogs along the shore
of the Arctic Ocean] Solntse nad tundroi; 1,000 kilometrov na
sobakakh po poberezh'iu Ledovitogo okeana. Magadan, Magadanskoe
knizhnoe izd-vo, 1959. 87 p. (MIRA 14:1)

1. Otvetstvennyy sekretar' "Magadanskoy pravdy" (for Bulanov).
(Arctic Ocean region--Description and travel)

KHUDYY, Yu.B.; BULANOV, V.A.; GOLUBEVA, I.V.

Instruments for use with the "Electroknife" apparatus. Med.prom. 13
no.11:53-54 N '59. (MIRA 13:3)

1. Nauchno-issledovatel'skiy institut eksperimental'noy khirurgi-
cheskoy apparatury i instrumentov.

(ELECTROSURGERY--APPARATUS AND INSTRUMENTS)

KORYAKIN, V.I.; VODOLAZOV, P.N.; Prinimali uchastiye BULANOV, V.A.;
ZEMTSOVA, V.F.; IL'INA, Ye.I.

Industrial experiments in the production of furfural by
pyrolysis. *Gidroliz. i lesokhim. prom.* 14 no. 1:9-12 '61.
(MIRA 14:1)

1. TSentral'nyy nauchno-issledovatel'skiy lesokhimicheskiy
institut.

(Furaldehyde)

(Pyrolysis)

KHUDYY, Yu.B.; BULANOV, V.A.

Surgical rectoscope. Med. prom. 16 no.2:58-61 F '62.

(MIRA 15:3)

1. Nauchno-issledovatel'skiy institut eksperimental'nyy
khirurgicheskoy apparatury i instrumentov.

(PROCTOLOGY--EQUIPMENT AND SUPPLIES)

SMIRNOV, G.A., kand. tekhn. nauk, dotsent; BULANOV, V.B., inzh.;
PESHKOV, S.I., inzh.

Calculating bending vibrations of the driving-axle housing of
a motor vehicle by means of electric simulation. Izv. vys.
ucheb. zav.; mashinostr. no.2:140-147 '65.

(MIRA 18:5)

Belikov, V. N. (grad stud)

Dissertation: "An investigation of the development of engineering sciences in Russia prior to the 19th century." Cand Tech Sci, Moscow Order of the Labor Red Banner Construction Engineering Institute imeni V. V. Kuybyshev, 15 Jun 54. (Vechernyaya Moskva, Moscow, 4 Jun 54)

SO: SOA 313, 23 Dec 1954

ARKHIPETS, Ye.Ya. (Kiyev); BONDAROVICH, I.M. (Khar'kov); BULANOV, V.N. (Kiyev);
 GALUSKIN, V.B. (Kiyev); GOGOTSI, G.A. (Mikolayev); GORBUNOVA, H.H.,
 (Kiyev); GORLITSKIY, B.A. (Kiyev); DYADYUSHA, G.G. (Kiyev); KATSNEL'SON,
 I.Ye. (Dnepropetrovsk); KVITCHUK, E.A. (Kiyev); KIRILLOV, I.A., (Krym)
 KONOPLYASOVA, N.S. (Chernovtsy); NIKOL'SKIY, V.V. (Kiyev); PONOMARENKO,
 A.A. (Stanislav); PESCHANSKIY, A.I. (Kiyev); POPOV, V.N. (Kiyev);
 PTASHNIKOVA, I.V. (Uzhgorod); STESHENKO, N.G. (Kiyev); CHAYKIN, M.M.
 (Vinnitsa); SHAPOSHNIKOVA, N.N. (Kiyev); SHPORTYUK, V.I. (Kiyev);
 YANKO, N.M. (Stalinskaya oblast'); SVECHNIKOVA, N., redaktor;
 SMORODSKIY, V., tekhnicheskij redaktor

[Tourist routes through the Ukraine] Turistskie marshruty po Ukraine.
 Kiev, Izd-vo TsK IKSMU "Molod'," 1957. 368 p. (MIRA 10:8)
 (Ukraine--Description and travel)

BULANOV, V.N.; FRANTSEVICH, I.N.

Some results of studying the rhenium - beryllium system.
Vop.por.met.i prochn.mat. no.6:32-35 '58.

(MIRA 13:4)

(Rhenium-beryllium alloys) (Sintering)

L 14240-66

ACC NR: AP6012152

SOURCE CODE: UR/0413/66/000/007/0070/0070

INVENTOR: Belov, N. M.; Bulanov, N. V.; Mukin, V. V.

40
3

ORG: none

TITLE: Device for measuring ^{9M}temperature differences. Class 42, No. 180381
[announced by the Scientific Research Institute of Atomic Reactors (Nauchno-
issledovatel' skiy institut atomnykh reaktorov)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 7, 1966, 70

TOPIC TAGS: temperature instrument, temperature measurement, resistance
thermometer, electronic amplifier

ABSTRACT: An Author Certificate has been issued describing a device for measuring
temperature differences (see Fig. 1). The device contains a bridge measuring circuit
with two platinum resistance thermometers connected to the input of an electronic
amplifier, on the output of which a reversible motor is attached. To compensate for
the errors originating as a consequence of the nonlinear characteristics of the platinum

1/2

UDC: 536.531.083.4

I. 41210-55

ACC NR: AP6012152

resistance thermometers, the measuring circuit is in the form of a double balanced-unbalanced bridge with a double power supply. A balancing resistance thermometer is connected to one arm of the unbalanced bridge. Orig. art. has: 1 figure. [Translation]

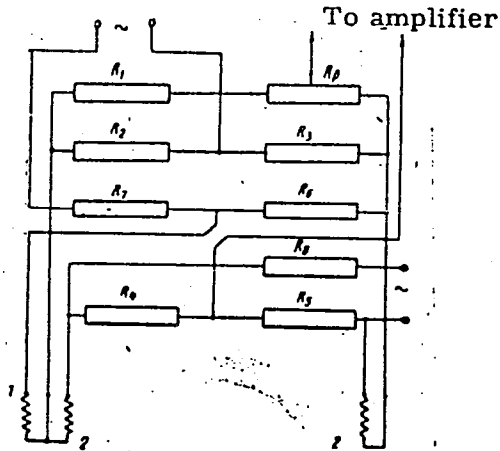


Fig. 1. Device for measuring the temperature differences.
1—Balanced resistance thermometer; 2—resistance thermometer.

SUB CODE: 2014/109/SUBM DATE: 27 Jan 65/

Card 2/2 *MT*

KAZAKOV, G.F., inzhener; BULANOV, V.S., inzhener.

Means of protection against sand crusts. Lit.proizv. no.4:30
Ap '56. (MLRA 9:7)
(Foundry machinery and supplies)

KALINOVSKAYA, Ye.N., kand. med. nauk; BULANOV, V.V.

Primary abdominal pregnancy in a patient with tuberculous
spondylitis. Akush. i gin. 39 no.5:147-148 S-0 '63.

(MIRA 17:8)

1. Iz Instituta tuberkuleza (dir. - kand. med. nauk T.P.
Mochalova) Ministerstva zdravookhraneniya RSFSR i 2-y Gorodskoy
bol'nitsy (glavnyy vrach B.V. Smirnov) Klina.

YUDKOVSKIY, P.A.; BULANOV, V.Ya.; ZHURAVKOV, Yu.N.; SHEVEL', A.P.

Effect of heat treatment on the strength of drills. Stan. i instr.
34 no.12:27-28 D '63.

(MIRA 17:11)

BULANOV, V.Ya.; GRUSHENKO, V.K.; IRIMITSKA, G.I.; MOKSHANTSEV, G.F.;
PLUZHNIKOV, V.A.; SINYUKHIN, A.V.; TENYAKOV, P.T.

Preparing iron powder from alloyed scale reduced by converted
natural gas. Porosh. met. 5 no.10:2-4 O 1965.

(MIRA 18:11)

1. Orenburgskiy filial Kuybyshevskogo politekhnicheskogo
instituta.

(N)

ACC NR: L 13018-66 AP5028374 EWT(d)/EWT(m)/EWP(e)/EWP(w)/EWA(d)/EWP(v)/T/EWP(t)/EWP(k)/EWP(h)/
EWP(z)/EWP(b)/EWP(l) SOURCE CODE: UR/0369/65/001/005/0571/0576
AUTHOR: Fedorchenko, I. M.; Bulanov, V. Ya.; Makshantsev, G. F. MJW/JD/WW/HW/DJ/WH/MJW(CL) 80

ORG: Institute of Problems of Metal Studies, AN UkrSSR, Kiev (Institut problem materialovedeniya AN UkrSSR); Orenburg Branch, Kuybyshev Polytechnic Institute (Orenburgskiy filial Kuybyshevskogo politekhnicheskogo instituta) 76 B

TITLE: Investigation of the properties of a nickel-graphite antifriction alloy 112

SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 1, no. 5, 1965, 571-576 1044.55

TOPIC TAGS: antifriction alloy, metal property, nickel alloy, graphite, alloy composition, compressive strength, metal oxidation, durability

ABSTRACT: The authors have conducted a study of the technology of the preparation and of certain properties of a graphite-nickel composition, because data on methods of preparation and on the properties of such metal-graphite compositions // are extremely limited in scope. An NP nickel powder (99.41% Ni; 0.18% Co; 0.03% Cu; 0.04% Fe; 0.01% Si; 0.10% O; and 0.01% C), EUT-1 graphite powder, and a calcium-silicon composition (28.7% Ca; 59.1% Si, and iron and other mixtures) were used in the samples. It is found that the introduction of calcium-silicon into a nickel-graphite charge makes it possible to obtain a nickel framework-die with pores filled with graphite without sweating out of the metal. One of the

Card 1/2

L 13018-66
ACC NR: AP5028374

nickel-graphite compositions tested has a compressive strength 1.5 to 2 times greater than that of AG1500, and can withstand a specific pressure during the friction process up to 10 dan/cm² operating at temperatures of 20 to 300C. The compositions examined are oxidation resistant at temperatures of 20 to 300C. Two of the alloys tested can operate for 10 hr with insignificant wear at loads up to 10 dan/cm² and 300C. Type AG1500 alloys, impregnated with various resins, lead, or babbitt, can operate at high loads, but fail when subjected to heating to 220C in oxygen. The friction coefficient of the composition examined at loads of 7.5 to 30 dan/cm² and 300C varies between 0.814 and 0.150, dropping with increasing graphite content. Orig. art. has: 2 figures and 3 tables.

SUB CODE: 11 / SUBM DATE: 15Oct64 / ORIG REF: 004 / OTH REF: 003

Card 2/2

BULANOV, Yu., mekhanik-ispytatel'

Yesterday's officers work at the stand. Grazhd. av. 18 no. 8:5
Apr '61. (Mina 14:8)

(Airplanes--Engines--Testing)

PHASE I BOOK EXPLOITATION

SOV/4863

Bulanov, Yuriy Andreyevich, and Sergey Nikolayevich Usov

Usiliteli nizkoy chastoty i radiopriyemnyye ustroystva (Low-Frequency Amplifiers and Radio Receiving Devices) Moscow, Gosenergoizdat, 1960. 524 p. 35,000 copies printed.

Ed.: V.F. Potryasay; Tech. Ed.: N.I. Borunov.

PURPOSE: This book has been approved by the Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya SSSR (Ministry of Higher and Secondary Special Education USSR) as textbook for students attending courses on "Audio Amplifiers and Radio Receiving Devices" at the tekhnikums of the radio engineering industry. It can also be used by radio amateurs and plant personnel acquainted with the mathematical curriculum of secondary schools.

COVERAGE: The book examines the theory of the operation of audio-frequency and radio-frequency radio receiver stages, methods of calculating them, the use of semiconductor devices, and the special features of radio receivers for frequencies ranging from 30 mc up. Each chapter is followed by a short conclusion and

Card 1/10

Low-Frequency Amplifiers (Cont.)

SOV/4863

review problems. Chapters I-IX were written by S.N. Usov; chapters X-XIX by Yu.A. Bulanov. The authors thank Professor N.I. Chistyakov, V.F. Potryasay, who edited the book, and Engineer S.V. Gurinov. There are 12 references, all Soviet.

TABLE OF CONTENTS:

Foreword	3
Introduction	9
Ch. I. General Information on Radio Receiving Devices	15
1. Classification of radio receiving devices	15
2. Types of modulation and classification of received signals	16
3. Circuit diagrams of radio receiving devices	26
Ch. II. Basic Qualitative Indexes of Radio Receiving Devices	35
1. Sensitivity of a receiver	35
2. Selectivity of a receiver	38

Card 2/10

Low-Frequency Amplifiers (Cont.)

SOV/4863

5. Circuit arrangements of negative-feedback amplifiers and computation of feedback components	196
6. "Ultralinear" amplifier	199
7. Positive feedback in l-f amplifiers	201
Ch. VIII. Wideband Amplifier	210
1. General information on wideband amplifiers	210
2. L-f regeneration control circuit	211
3. Hf regeneration control circuit	215
4. Output stage of a wideband amplifier	220
Ch. IX. Use of Transistors in Audio Amplifiers	224
1. Grounded-emitter circuit	227
2. Grounded-base circuit	229
3. Grounded-collector circuit	231
4. Transistor noises	236
z 5. Transistorized audio-amplifier circuits	236
6. General rules concerning the computation of transistorized audio amplifiers	240

Card 5/10

Low-Frequency Amplifiers (Cont.)

SOV/4863

Ch. X. Radio-Receiver Input Circuits	244
1. Receiving-antenna parameters and equivalent circuits	244
2. Purpose and principle of operation of input circuits	246
3. Oscillatory circuit and its parameters	248
4. Design of input circuits with direct antenna connection	253
5. Design of input circuits for capacitive antenna coupling	253
6. Design of input circuits for inductive antenna coupling	253
7. Design of input circuits for feeder supplying	260
8. Division of a given frequency range into subranges	276
9. Spread subranges and their computation	283
Ch. XI. R-F Amplifiers	290
1. Purpose and field of application of r-f amplifiers	290
2. R-f amplifier connection diagrams	292
3. Direct-coupled single-tuned amplifier	295
4. Transformer-coupled single-tuned amplifier	300
5. Stability of operation of a tuned amplifier	304
6. Distortions in r-f amplifiers	312
7. Sequence of r-f amplifier computation	314
8. Use of transistors in r-f amplifiers	321

Card 6/10

Low-Frequency Amplifiers (Cont.)

SOV/4863

Ch. XII. I-F Amplifiers	325
1. Purpose of i-f amplifiers	325
2. I-f amplifier connection diagrams	326
3. Multistage single-tuned amplifier	330
4. Stagger-tuned amplifier pair	334
5. Amplifier with two-circuit filters	340
6. Computation of an i-f amplifier	345
7. Transmission-band adjustment	354
8. Distortions in i-f amplifiers	358
Ch. XIII. Detection	364
1. Principle of detection	364
2. Diode detection	366
3. Computation of a diode detector	382
4. Semiconductor detectors	384
5. Grid-resistor-and-capacitor detection	385
6. Plate and cathode detection	389
7. Pulse-signal detection	392
8. Special features of frequency-modulated signal reception	395

Card 7/13

Low-Frequency Amplifiers (Cont.)

SOV/4863

Ch. XIV. Frequency Converters	408
1. General information on frequency translation	408
2. Single — grid frequency converters	411
3. Multigrid frequency converters	418
4. Crystal-diode frequency converters	423
5. Distortions in frequency converters	424
Ch. XV. Heterodynes	427
1. Requirements of heterodynes	427
2. Heterodyne circuit diagrams	429
3. Tracking of the heterodyne circuit with circuits tuned at the received-signal frequency	433
4. Computation of heterodynes	437
Ch. XVI. Manual and Automatic Control of Radio Receivers	443
1. General information on the control of receivers	443
2. Manual gain control	445
3. Automatic gain control	448
4. Computation of automatic gain control	457
5. Use of visual tuning indicators	461
6. Automatic frequency control	462

Card 8/10

Low-Frequency Amplifiers (Cont.)

SOV/4863

Ch. XVII. Circuit Diagrams of Radio. Receiving Devices	467
1. Regeneration	467
2. Operating conditions and circuit diagrams of regenerators	470
3. Superregeneration	474
4. Circuit diagrams of tuned radio-frequency and superheterodyne receivers	480
Ch. XVIII. Metric-Wave and Microwave Receivers	
1. Special features of metric-wave microwave receivers	486
2. Oscillatory systems of the metric-wave and microwave range	487
3. Tube operation in the metric-wave and microwave range	490
4. Receiver noise in the metric-wave and microwave range	495
5. Input circuits and tuned amplifiers of the metric-wave and microwave receivers	497
6. Frequency converters and heterodynes of metric-wave microwave receivers	507
7. I-f amplifiers and detectors of metric-wave and microwave receivers	515

Card-9/10

Low-Frequency Amplifiers (Cont.)

SOV/4863

Ch. XIX. Radio Interference

1. Types of interference
2. Atmospheric interference
3. Industrial noise

518
518
519
522

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Card 10/10

JP/rsm/gmp
3-6-61

ZILOVA, T.K.; PETRUKHINA, N.I.; PALKIN, B.A.; RYAZANOV, N.V.;
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(MIRA 14:7)

(Materials--Testing)

S/032/62/028/006/013/025
B101/B138

AUTHORS: Engel'sht, V. S., Trapitsyn, N. F., and Bulanov, Yu. A.

TITLE: Determination of lanthanum and yttrium in rare-earths mixtures

PERIODICAL: Zavodskaya laboratoriya, v. 28, no. 6, 1962, 687

TEXT: The determination of La and Y by spectral analysis, where the rare earths are mixed with copper powder (ratio 1 : 50) and a copper rod serves as counterelectrode, is described. An KП-2 (IG-2) generator, KCA-1 (KSA-1) spectrograph, and spectral photographic plates of type II were used. The calibration curve ($\log I$ against $\log C$) is plotted for mixtures of La_2O_3 and Y_2O_3 with copper powder. The intensity I of the lines La II 3949.11 Å, and Y II 3950.36 Å, as well as the background near the maximum of the La line, are evaluated photometrically. The relative error for triple determination is $\sim 3\%$ for La and $\sim 3.5\%$ for Y. The presence of up to 50% Y_2O_3 and Ce_2O_3 does not affect La determination. The same content of La_2O_3 and

Card 1/2